
Multifrequency Signalling Diagnostic (LD 54)

Multifrequency Compelled Signaling (MFC) or Multifrequency Signaling (MFE) provides a handshaking facility between the SL-1 and the Central Office or Public Exchange (CO/PE), or between other PBXs over network/Tie trunks.

The MFD Overlay program is used to diagnose, display or change the status of the MFC or MFE send/receive (S/R) cards. The program resets all available MFC or MFE cards (both channels idle) and performs loop-back tests during the midnight routines. After every SYSLOAD or power-up, all available MFC or MFE cards are initialized.

MFD messages

MFD0000	Program 54 identifier. MFD is ready for input commands.
MFD0001	Invalid input. Number of characters in one field is greater than four. Action: Check input. Re-enter the command.
MFD0002	Invalid input. Wrong data type. Action: Check input. Re-enter the command.
MFD0003	Invalid input. Command field unknown. Action: Check input. Re-enter the command.
MFD0004	Invalid input. Too many parameters. Action: Check input. Re-enter the command.
MFD0005	Previous command still in progress.

MFD

	Action: Check input. Re-enter the command.
MFD0006	Wrong/unequipped customer. Action: Check input. Re-enter the command.
MFD0007	Wrong argument/invalid parameters. Action: Check input. Re-enter the command.
MFD0008	Invalid TN. Loop out-of-range 0 to 159. Action: Re-enter command.
MFD0009	Invalid TN. Shelf out-of-range (0 to 3). Action: Re-enter the command.
MFD0010	Invalid TN. Card out-of-range (1 to 10). Action: Re-enter the command.
MFD0011	Invalid TN. Unit out-of-range (0 to 1). Action: Re-enter the command.
MFD0012	Wrong Argument. Digit out-of-range (1 to 30). Action: Re-enter the command.
MFD0013	Wrong Argument. Level out-of-range (0 to 7). Action: Re-enter the command.
MFD0014	Specified TN is not equipped to be MFC or MFE channel. Action: Check input. Re-enter command.
MFD0015	MFC or MFE channel is busy. No action.
MFD0016	MFC or MFE channel found faulty but has not been disabled. Given after ATST command or in response to test initiated by system. TN and failed digit are both output. Action: For repeated failures, replace card.
MFD0017	MFC or MFE channel found faulty and has been disabled. Given after ATST command or in response to test initiated by system. TN and failed digit are both output. Action: For repeated failures, replace card.

MFD0018	MFC or MFE channel found faulty but has not been disabled. Given after MTST command. TN, failed digit and signal level received are all output. Action: For repeated failures, replace card.
MFD0019	MFC or MFE channel found faulty and has been disabled. Given after MTST command. TN, failed digit, and signal level received are all output. Action: For repeated failures, replace card.
MFD0020	Timeout, no response. Channel not disabled. Given after ATST, MTST commands and midnight test. Action: For repeated failures, replace card.
MFD0021	Timeout, no response. Channel is disabled. Given after ATST, MDST commands and midnight test. Action: For repeated failures, replace card.
MFD0022	Timeout, no response. Card level, channel or channels are not disabled. Given after initialization. Action: For repeated failures, replace card.
MFD0023	Timeout, no response. Both channels are disabled. Given after initialization. Action: For repeated failures, replace card.
MFD0024	MFC cordage restricted, Overlay not loaded.
MFD0030	Corrupted data, loop density out-of-range (0 to 2).
MFD0031	Corrupted data, unit information out-of-range (0 to 15).
MFD0032	Self-test failed. Channel is not disabled.
MFD0033	Self-test failed. Channel is disabled
MFD0034 tn yy	Self-test failed, and XMFC/XMFE card disabled (all units) Where: tn= loop, shelf and card, yy = result. Where yy = 00- Self-test O.K. 01- DS-30X Toggle Fail 02- DSP EPROM Low Fail 03- DSP EPROM High Fail

04- DSP RAM 0 Low Fail
05- DSP RAM 0 High Fail
06- DSP RAM 1 Low Fail
07- DSP RAM 1 High Fail
08- DSP RAM 2 Low Fail
09- DSP RAM 2 High Fail
0A- DSP DS-30X RAM 0 Fail
0B- DSP DS-30X RAM 1 Fail
0C- DSP Latch Timeout
0D- DSP Invalid Configuration
0F- DSP General Fail
10- 80C31 AROM Fail
11- 80C31 RAM Fail
12- 80C31 MPU Fail
13- DSP Timeout Fail
14- A07 Register Fail
15- Card-Lan Fail
16- EEPROM Fail
17- Invalid Message from Meridian SL-1
2x- DID Loopback Fail (x = digit)
3x- DOD loopback Fail (x = digit)

MFD0035 l s c Timeout due to no response. The XMFC/XMFE card missing or disabled (all units), where: l s c = TN information (loop, shelf, card)

MFD0036 ATST/MTST commands not supported on Card 0 MFC/MFE/MFK5/MFK6 units.

MFD0037 New MFC / MFE / MFK5 / MFK6 units on Card 0 can only be enabled using ENLX in LD 34.

Action: To enable these units, go into LD 34 and perform ENLX0.

MFD0038 Invalid TN. Unit out-of-range (0-31).

MFD0039 Wrong argument. Level out-of-range(0-15).

MFD0040	Corrupted data. Loop density out-of-range.
MFD0041	Invalid TN. Card out-of-range (0-15).
MFD0042	This command is supported in Overlay 32.